

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 6353 - L2 Version 3  
Chandra X-Ray Center

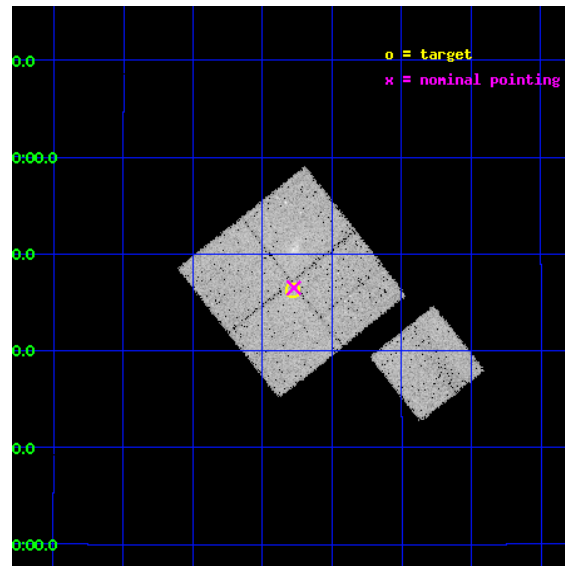
L2 Processing Date : Dec 26 2012

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# 1 Front

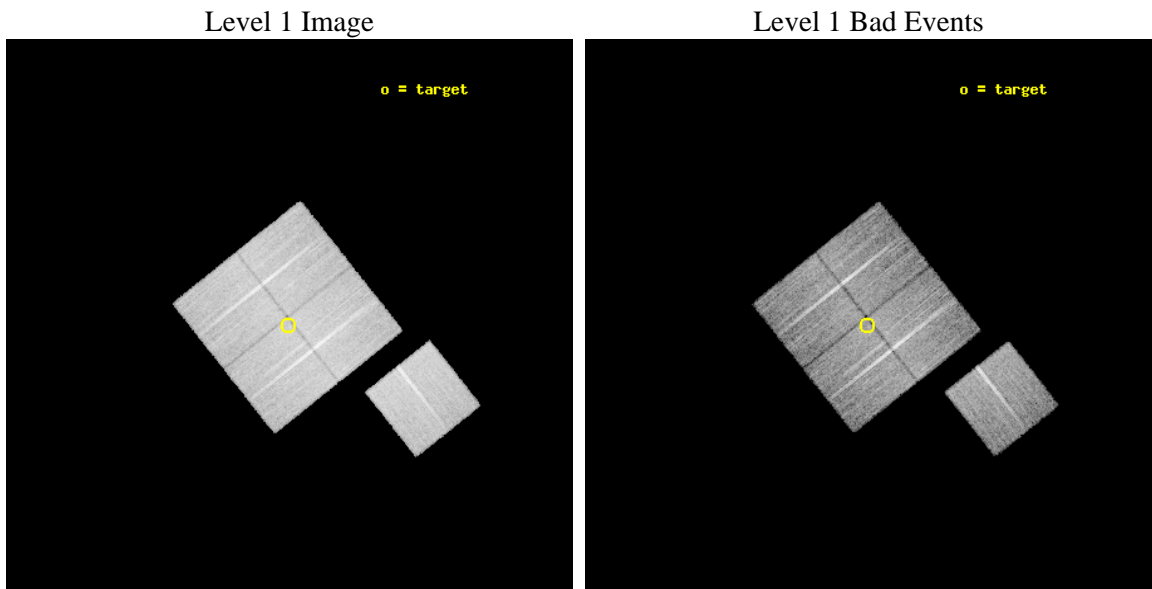
seq_num	701058	Sequence number
obs_id	6353	Observation id
title	A Chandra Study of Two Nearby, Powerful Radio Galaxies in Poor Environments	Proposal title
observer	Dr. Ralph Kraft	Principal investigator
object	3C 442A	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	333.695833	Observer's specified target RA [deg]
dec_targ	13.77111	Observer's specified target Dec [deg]
ra_nom	333.6935500196	Nominal RA [deg]
dec_nom	13.775173646399	Nominal Dec [deg]
roll_nom	141.50926511111	Nominal Roll [deg]
revision	3	Processing version of data
ontime	14170.058972567	Sum of GTIs [s]
livetime	13984.916720245	Livetime [s]
ontime0	14170.058982462	Sum of GTIs [s]
ontime1	14170.058962524	Sum of GTIs [s]
ontime2	14166.917992204	Sum of GTIs [s]
ontime3	14170.058972567	Sum of GTIs [s]
ontime6	14170.058982491	Sum of GTIs [s]
l2events	90559	Number of level 2 events



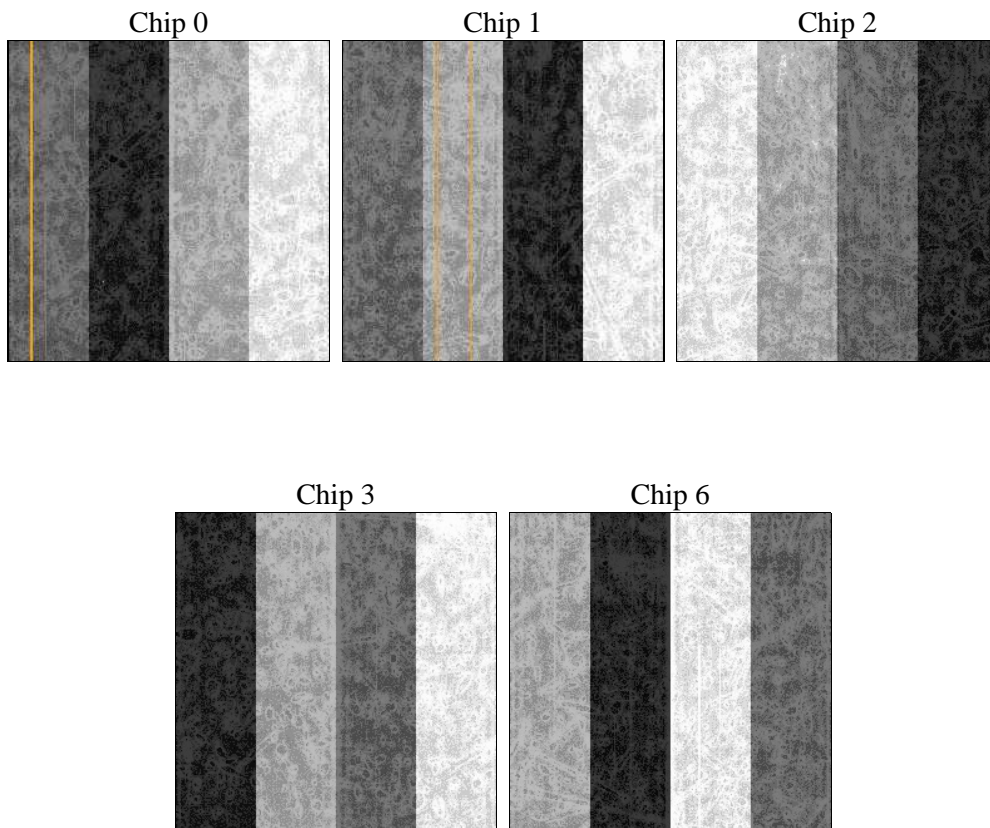
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	14000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	14170.058972567	Sum of GTIs [s]
caldbver	4.5.5	&#160	ontime0	14170.058982462	Sum of GTIs [s]
date	2012-12-26T15:29:52	Date and time of file creation	ontime1	14170.058962524	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	14166.917992204	Sum of GTIs [s]
			ontime3	14170.058972567	Sum of GTIs [s]
			ontime6	14170.058982491	Sum of GTIs [s]
			l1events	662352	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	126402	125989	139972	133680	136309
rejected events	103666	104919	119252	114201	117160
rejected %	82%	83%	85%	85%	85%

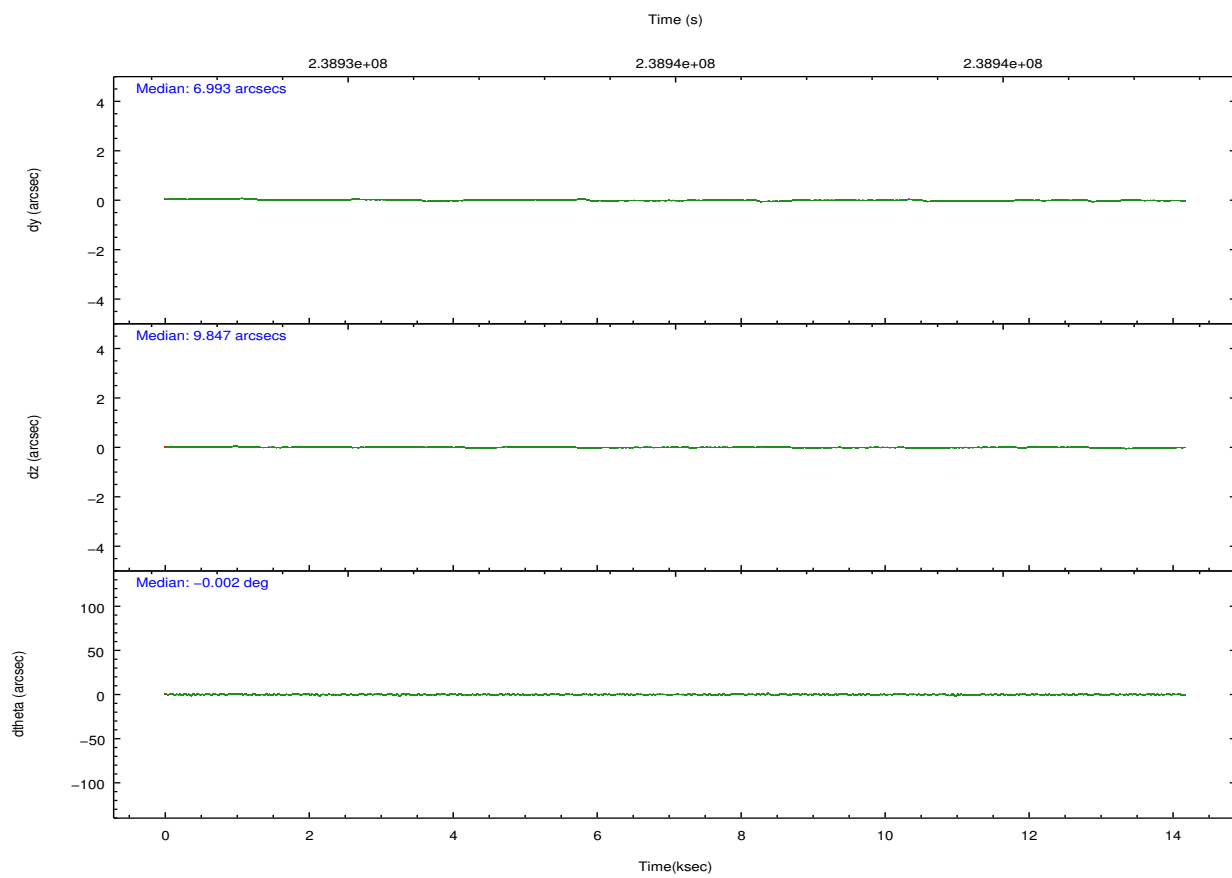
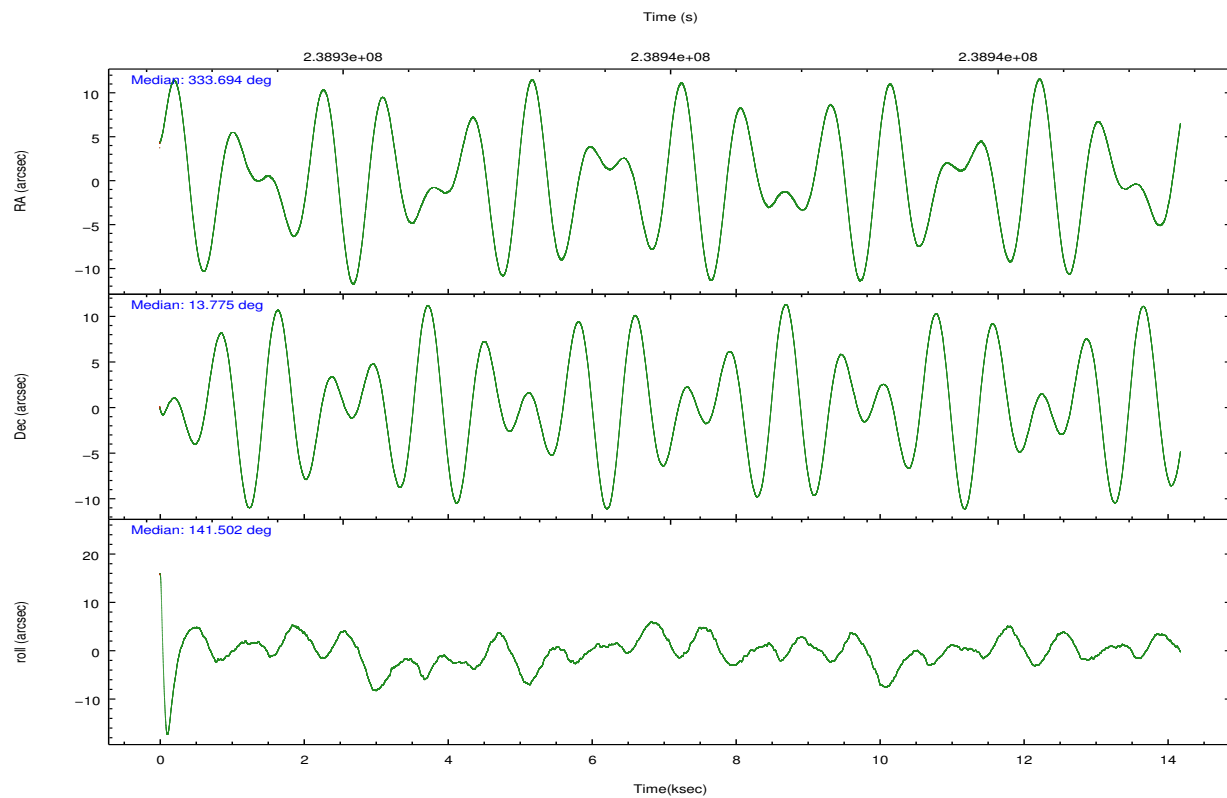
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	12731	10184	11416	10417	9138
	10%	8%	8%	7%	6%
grade 1 events	101	87	110	80	76
	0%	0%	0%	0%	0%
grade 2 events	4736	4862	4293	3827	4395
	3%	3%	3%	2%	3%
grade 3 events	1849	1829	1683	1715	1638
	1%	1%	1%	1%	1%
grade 4 events	1677	1827	1756	1724	1654
	1%	1%	1%	1%	1%
grade 5 events	5037	5402	4853	5726	5776
	3%	4%	3%	4%	4%
grade 6 events	3576	4102	3269	3548	4043
	2%	3%	2%	2%	2%
grade 7 events	96695	97696	112592	106643	109589
	76%	77%	80%	79%	80%



## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	333.721449	333.6935500195971	Subarray requested	NONE	NONE
[deg] Pointing Dec	13.771246	13.77517364639888	Alternating exposures requested	N	N
[deg] Pointing Roll	141.293904	141.5092651111143	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	238928075.184000	238926468.99261			
Observation start date	2005-07-28T08:53:31	2005-07-28T08:27:48			
[s] Observation end time (MET)	238942075.184000	238942682.44335			
Observation end date	2005-07-28T12:46:51	2005-07-28T12:58:02			
Read mode	TIMED	TIMED			

## 2.3 Aspect

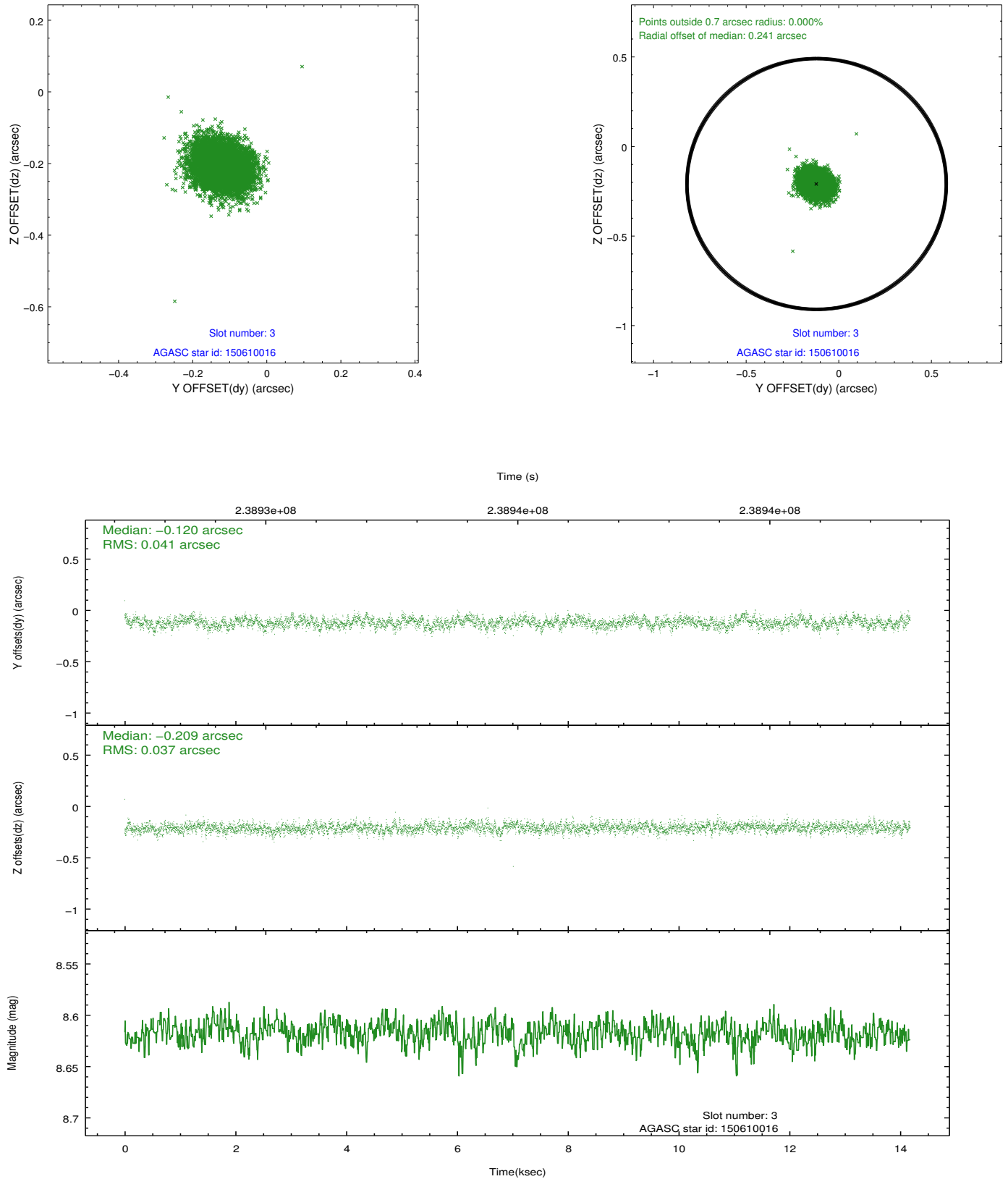


### Slot Statistics

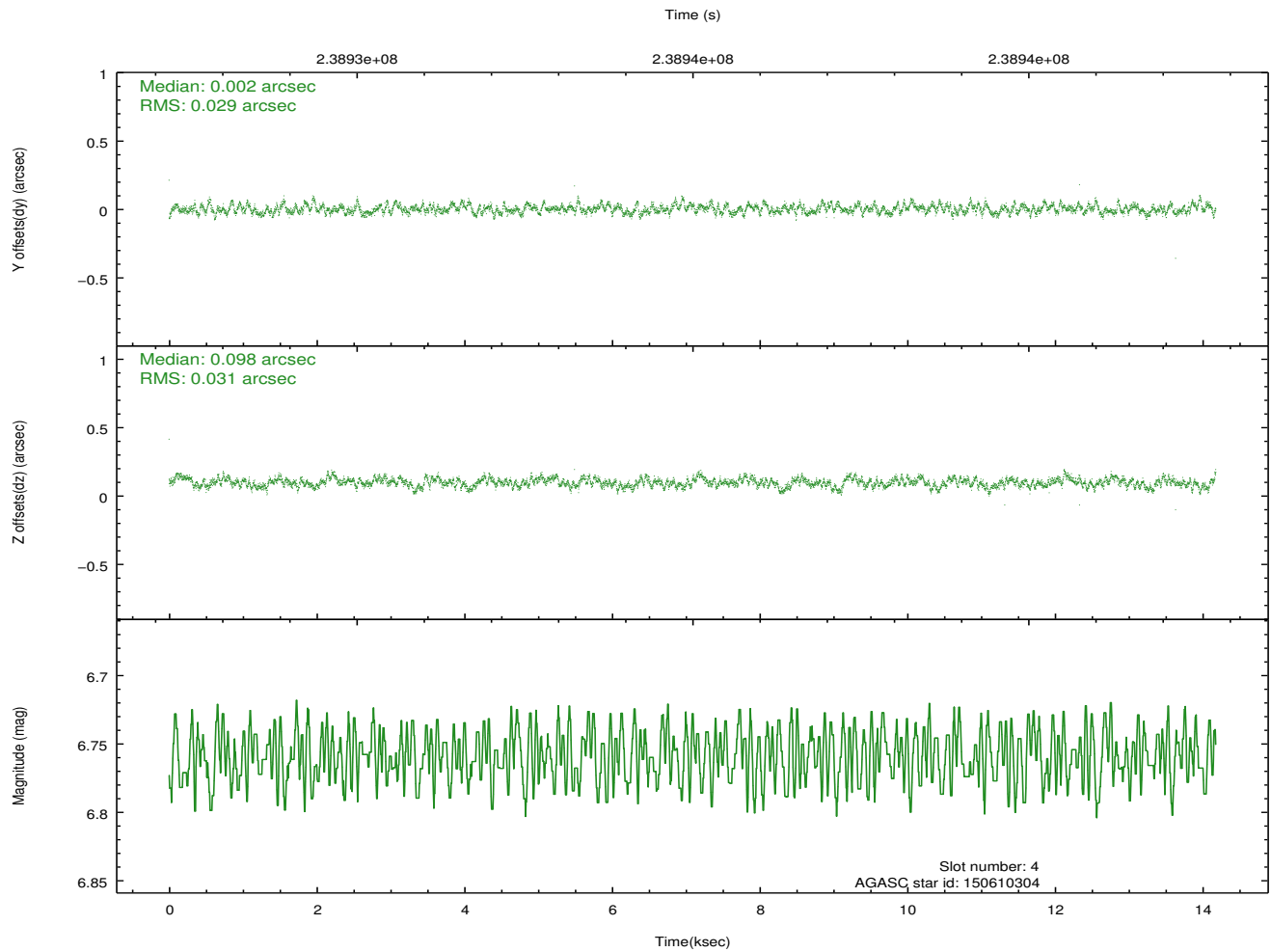
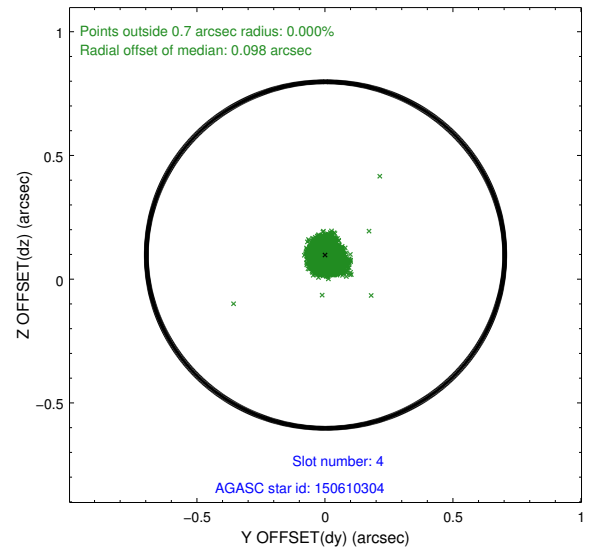
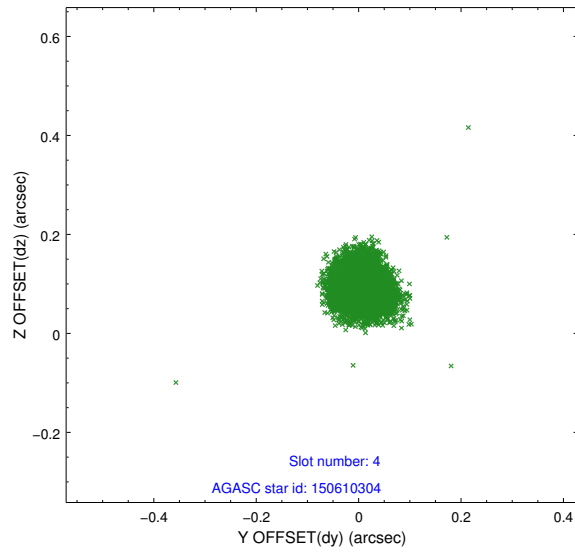
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	3459	0.003	0.021	0.006	0.011	0.000000	0.000000	932.70	-833.29
1	FID	ACIS-I-5	7.23	3459	-0.157	0.026	0.006	0.010	0.000000	0.000000	-1815.40	1064.03
2	FID	ACIS-I-6	7.25	3459	0.062	0.023	0.006	0.011	0.000000	0.000000	397.93	1708.91
3	GUIDE	150610016	8.62	6917	-0.120	-0.209	0.058	0.094	333.607680	13.272180	-812.53	1651.30
4	GUIDE	150610304	6.76	6918	0.002	0.098	0.045	0.071	334.517012	13.950326	-1763.09	-2244.60
5	GUIDE	150614840	8.68	6915	0.123	0.011	0.081	0.133	333.996804	13.803587	-677.89	-693.30
6	GUIDE	150606032	8.77	6886	-0.045	-0.063	0.067	0.108	333.468551	13.881130	937.41	243.98
7	GUIDE	150605048	8.31	6914	0.039	0.168	0.063	0.101	334.582600	13.956006	-1927.91	-2404.38

## 2.4 Star Slots

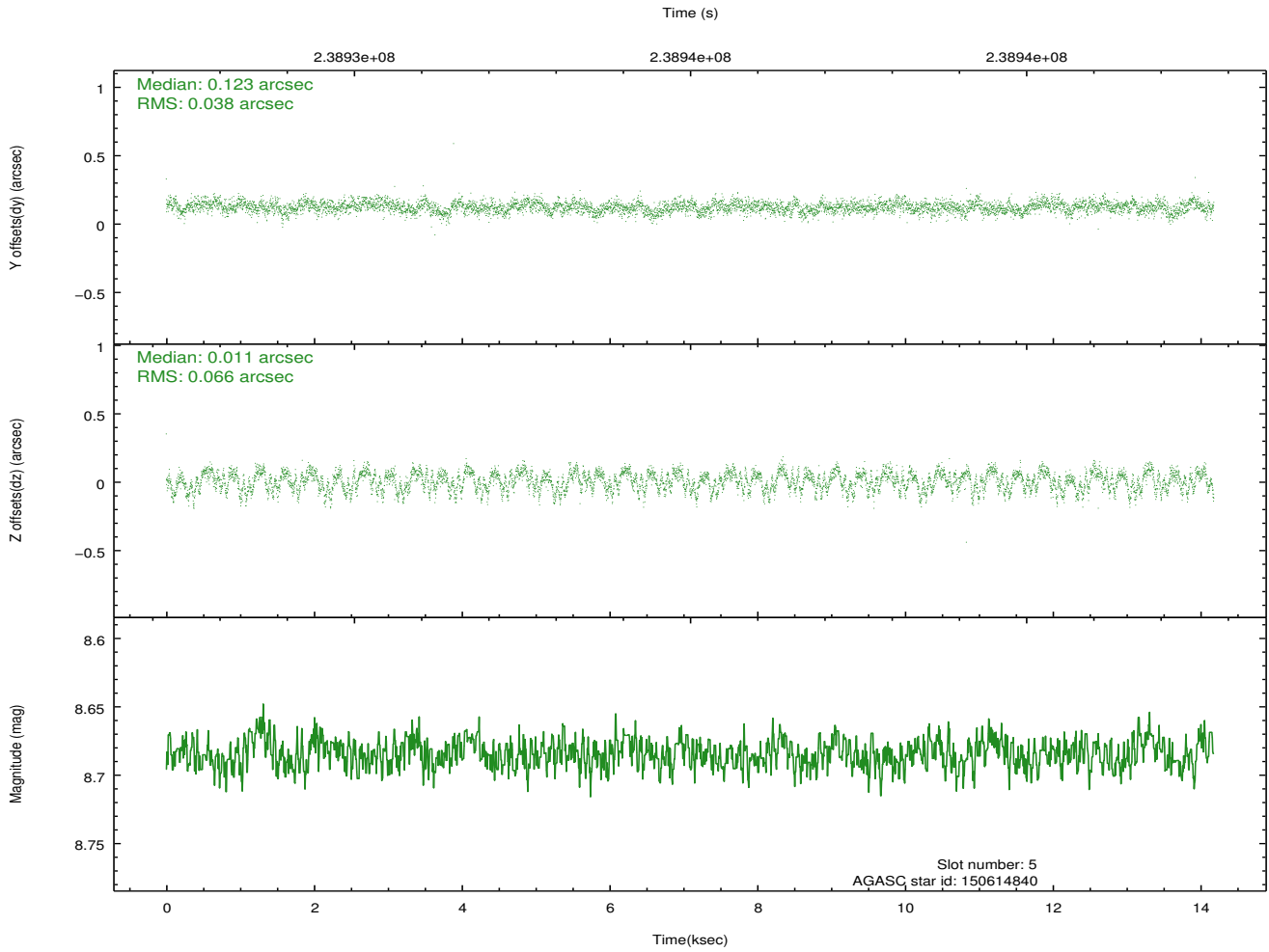
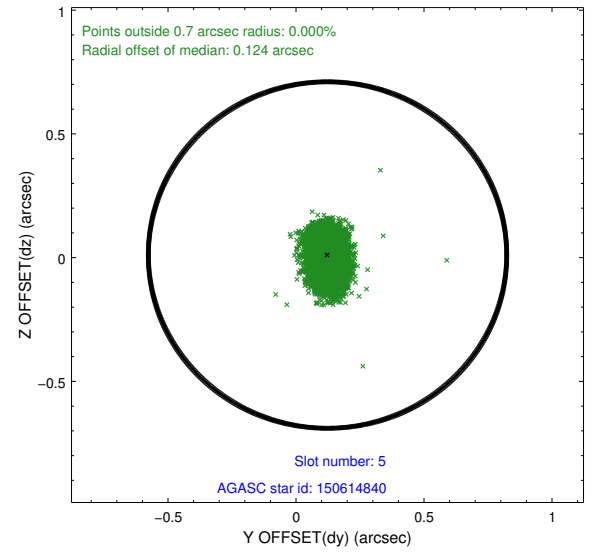
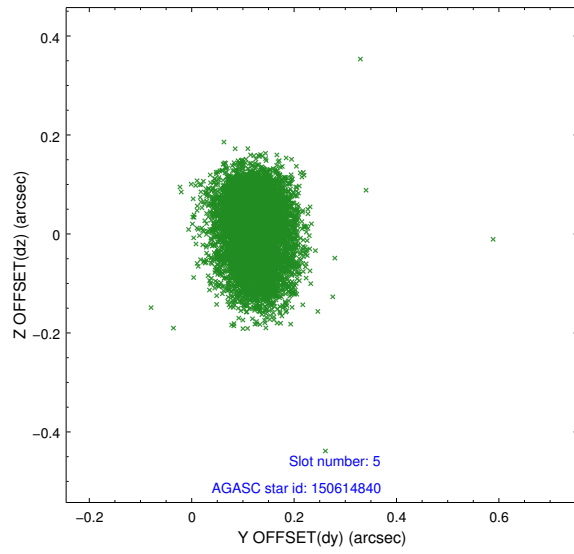
### 2.4.1 Slot 3



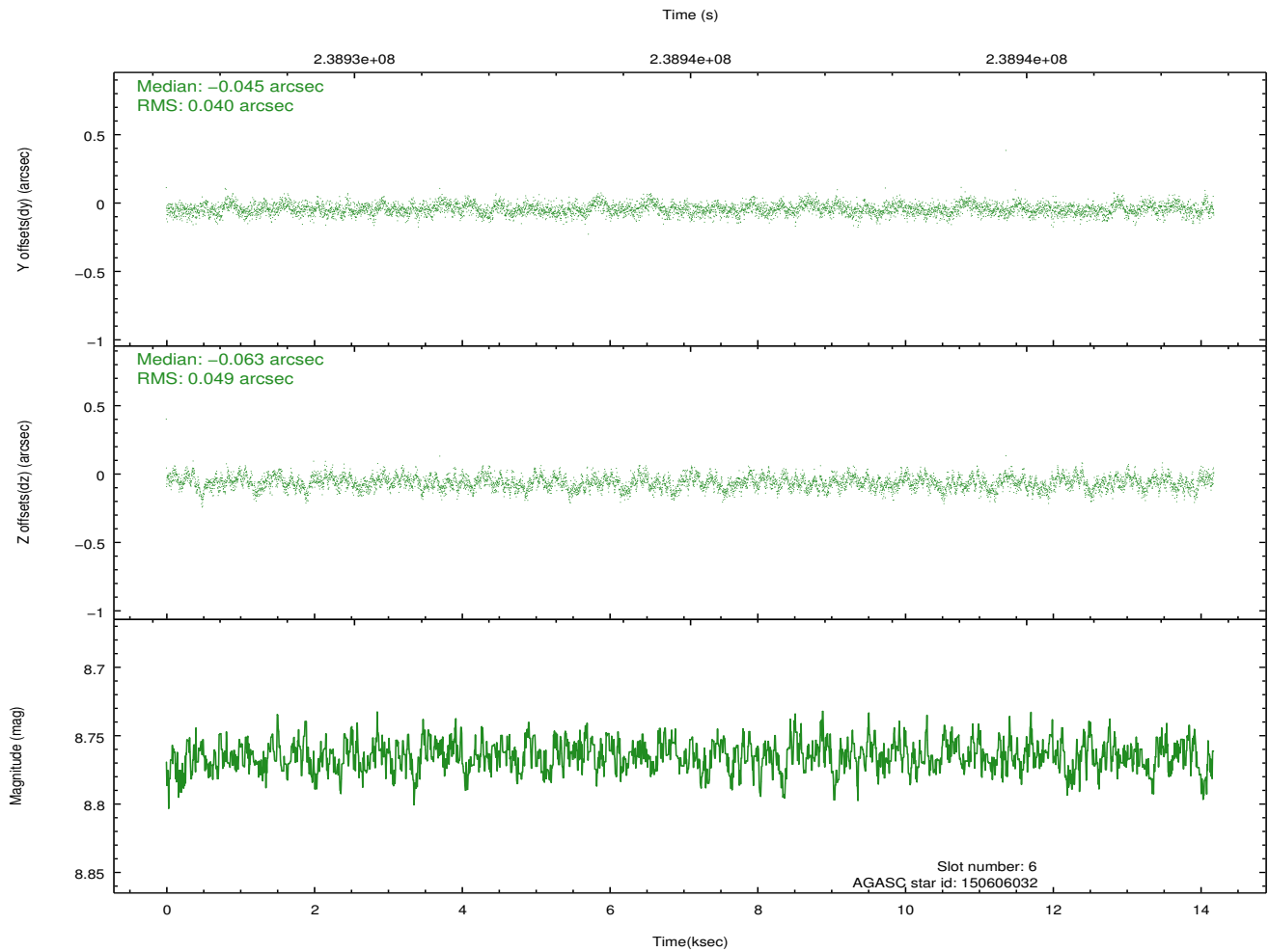
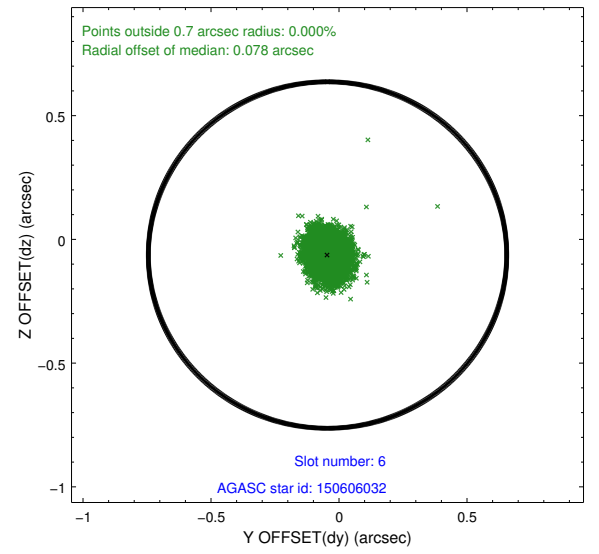
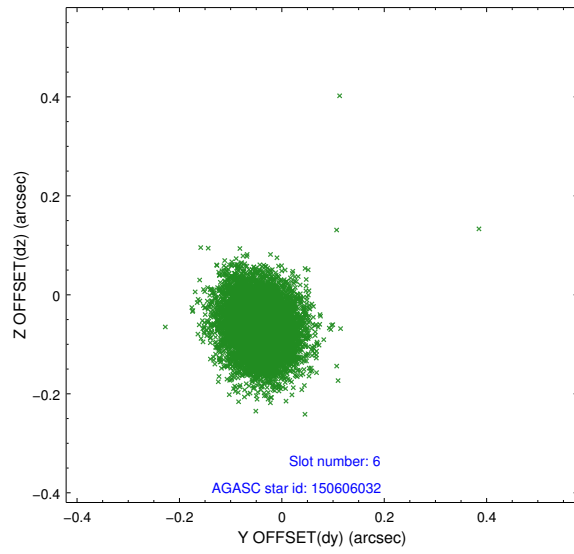
## 2.4.2 Slot 4



### 2.4.3 Slot 5

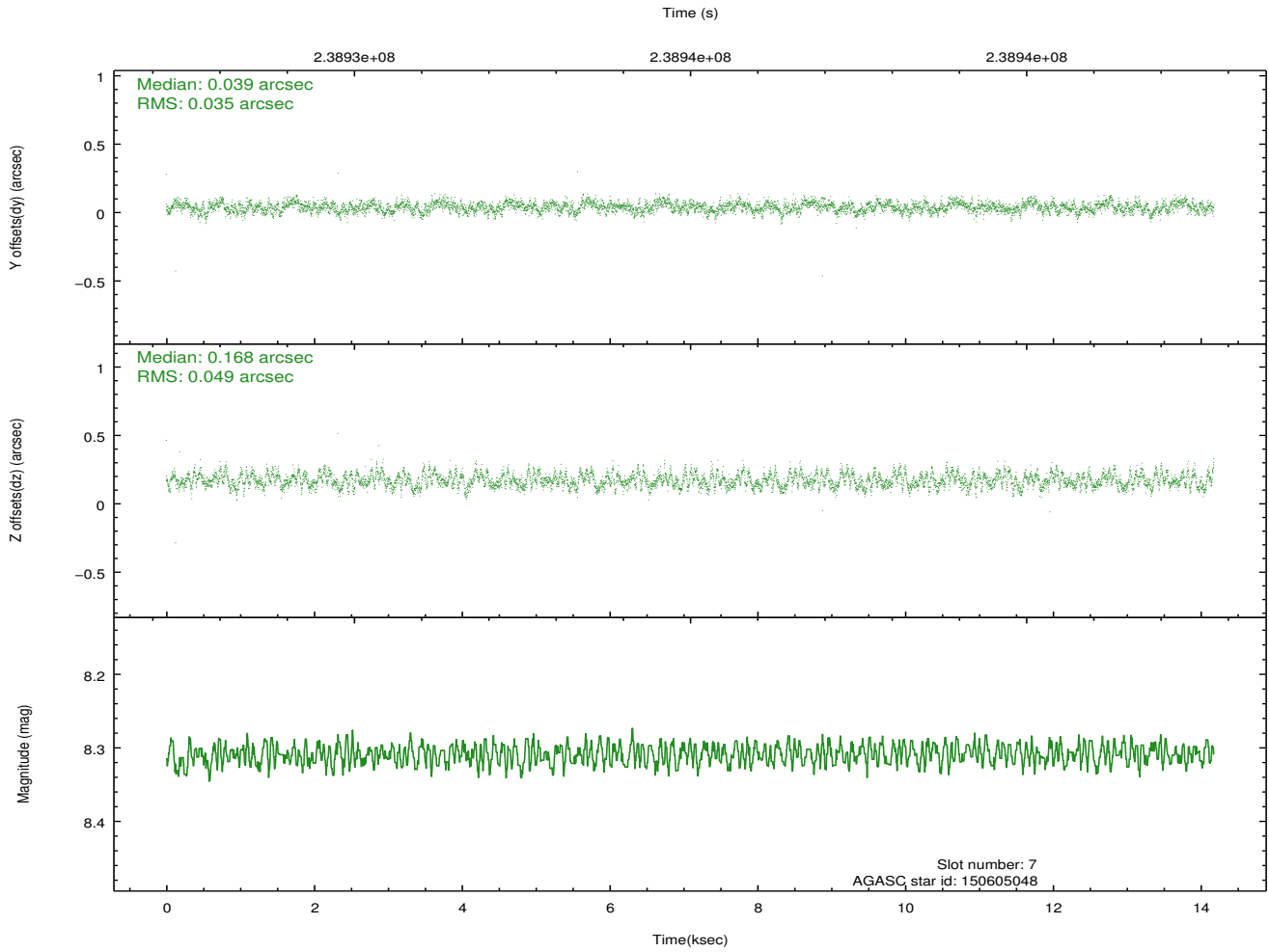
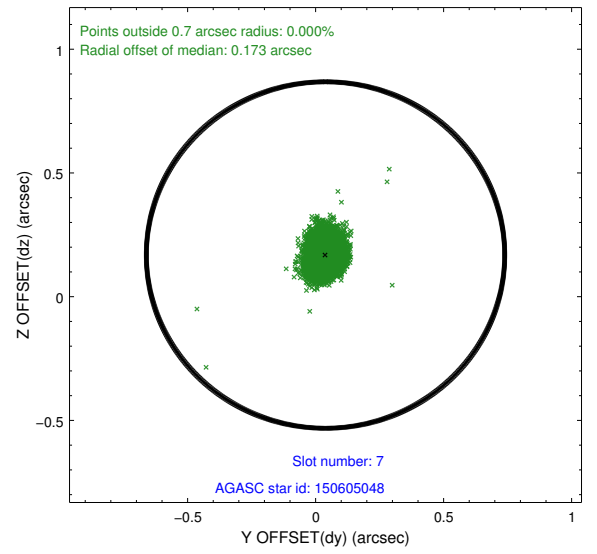
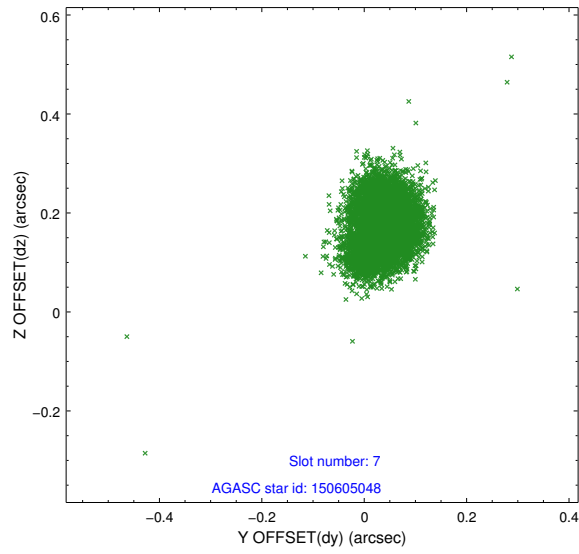


## 2.4.4 Slot 6



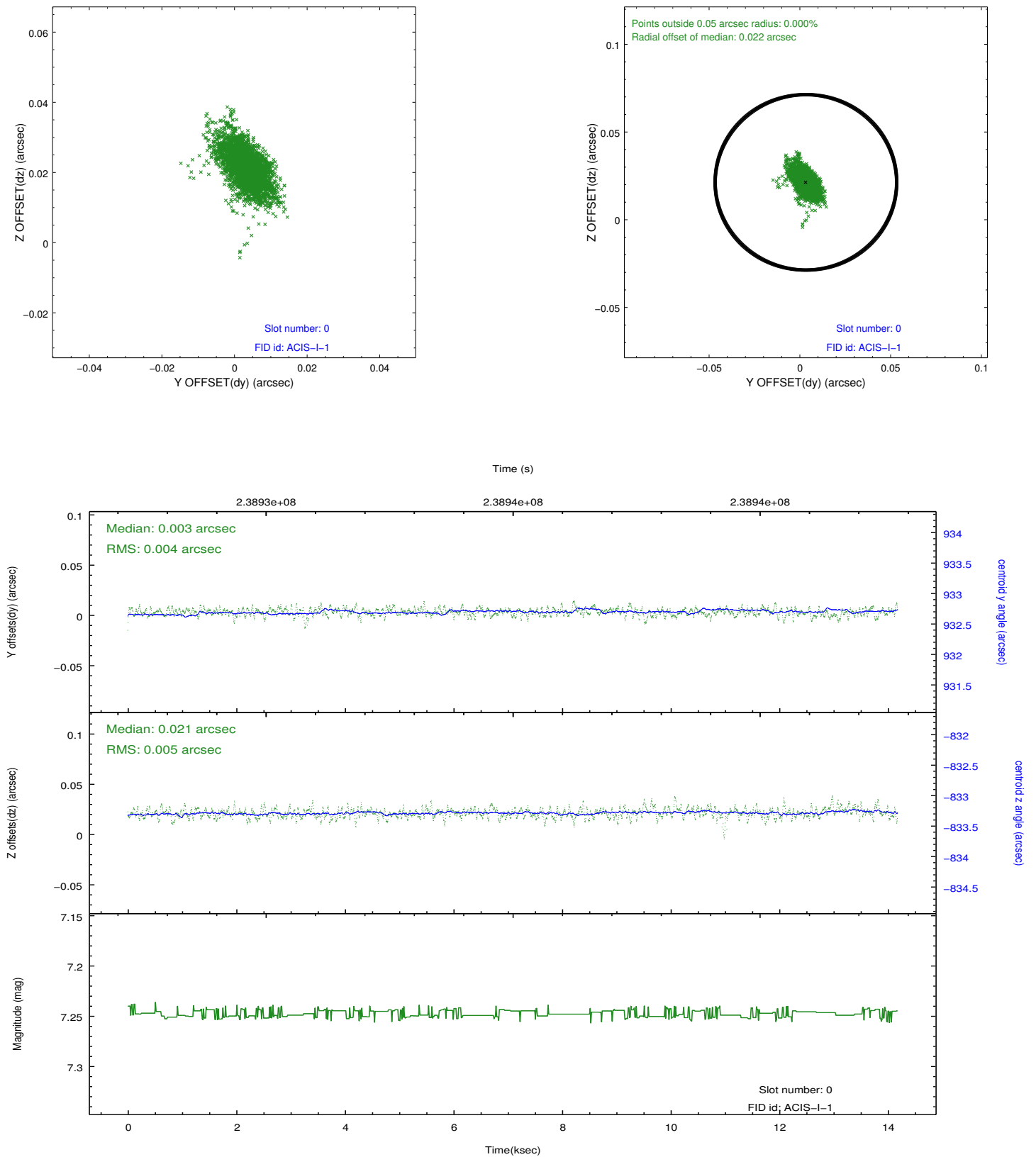


## 2.4.5 Slot 7

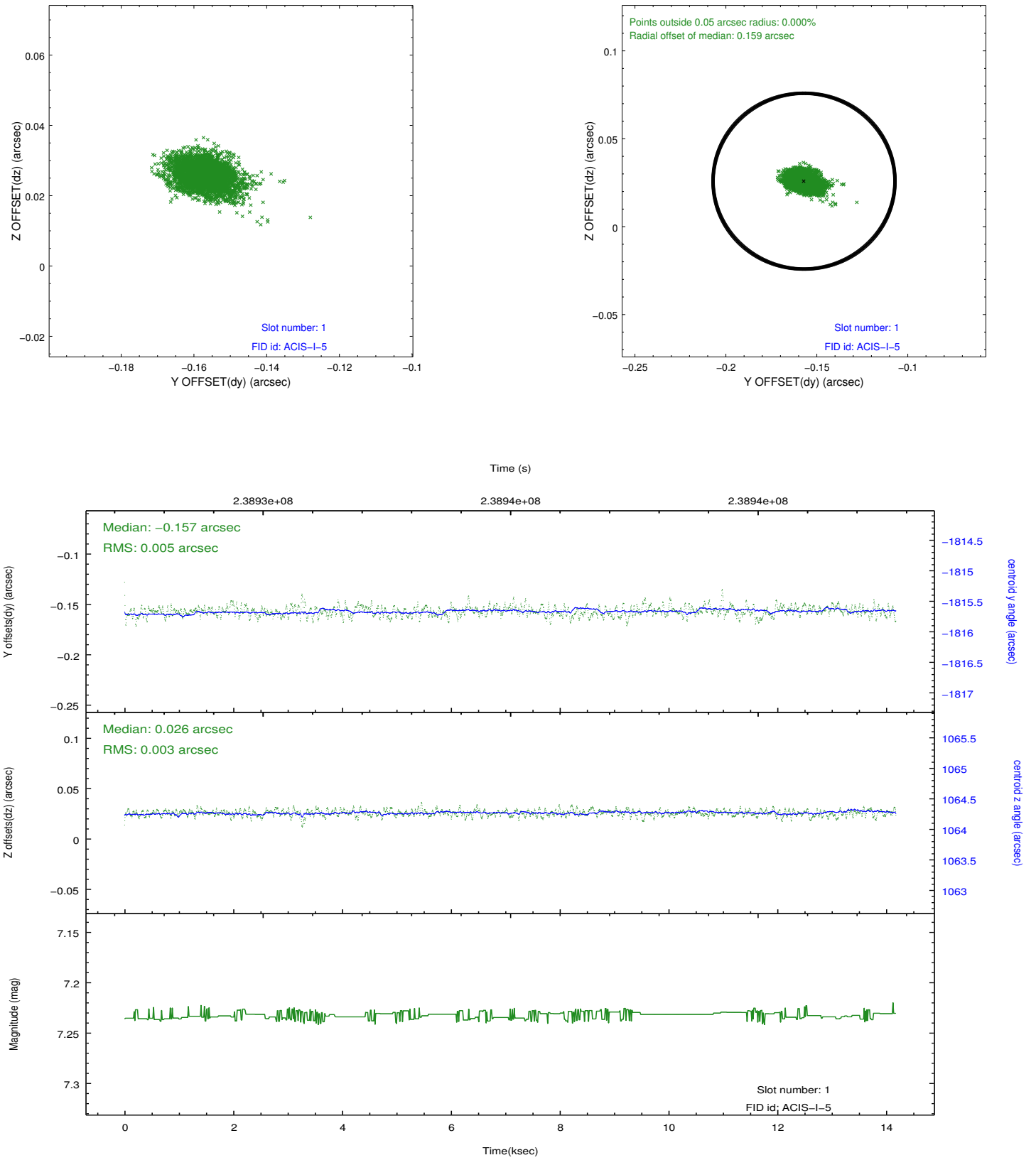


## 2.5 FID Slots

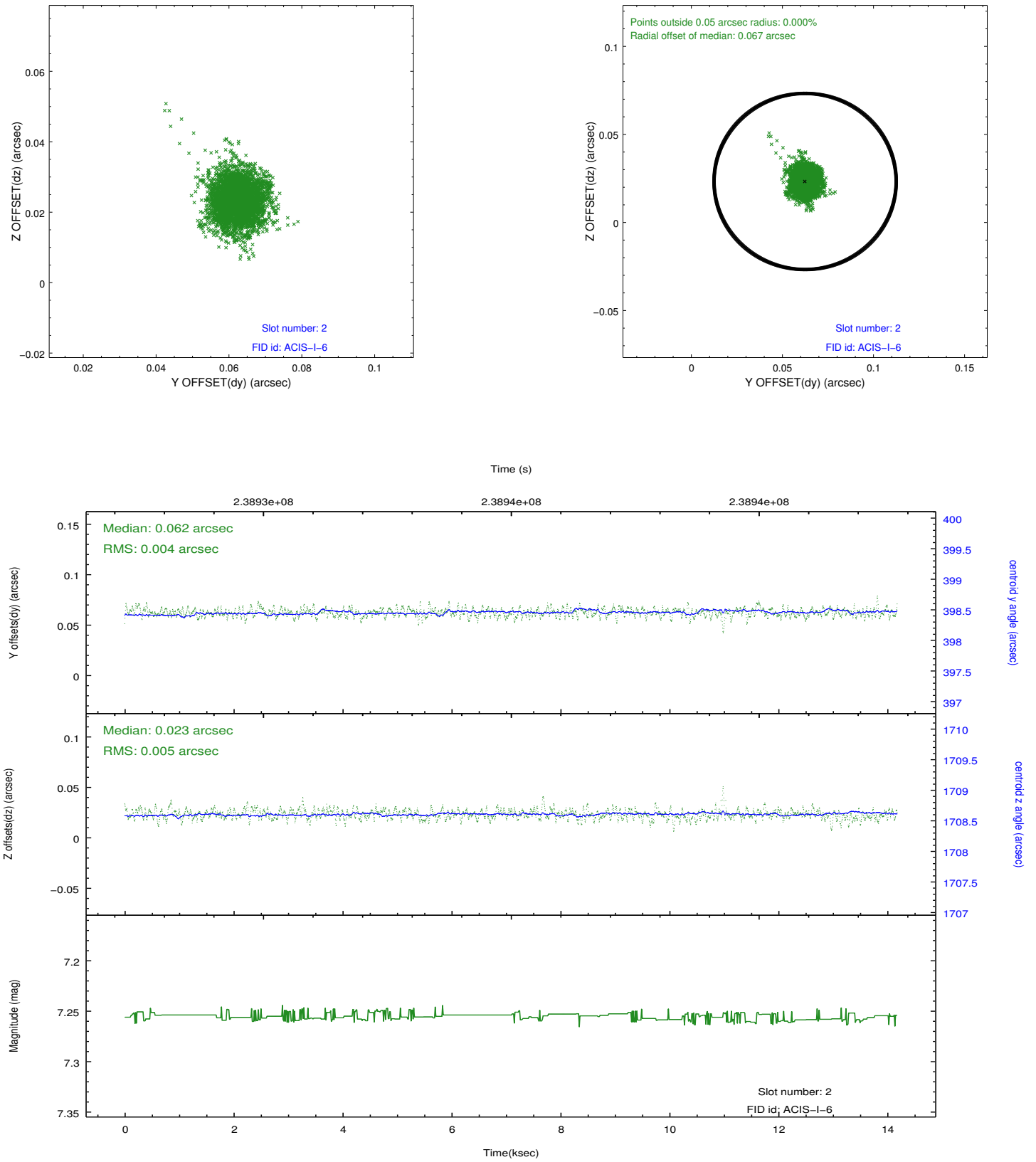
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.01.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.1700589

### A.2 Comments